

### **ABSTRACT**

An air cleaner and method of controlling an operation of the same is disclosed. The air cleaner includes a cabinet having an inlet and an outlet; a filter assembly removing dust and smell particles from a room air; a fan; a sensor assembly sensing the composition of the room air; a supplier assembly providing at least one of insufficient components of the room air to a cleaned air; and a controller controlling the supplier assembly on the basis of data regarding the composition of the room air. In another aspect, the method of controlling the operation of the air cleaner includes steps of sensing a room air; measuring insufficient components of the room air and the amount thereof; and providing at least one of the insufficient components of the room air to a cleaned air.